

App. No. 10/522,887
Office Action Dated September 18, 2007

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Claims 17-20 and 23-25 are amended.

Claims 21-22 and 26-28 are canceled without prejudice or disclaimer.

Listing of Claims:

17. (Currently Amended) A method for producing a transgenic Indica rice ~~varieties~~ variety comprising:

- a. Constructing an expression vector for plant transformation that comprises a promoter, a Manganese superoxide dismutase (MnSOD) gene coding sequence derived from *Nicotiana Plumbaginifolia L.*, and a transit peptide coding sequence, wherein the promoter, the transit peptide coding sequence and the MnSOD coding sequence are operably linked;
- b. Transforming rice calli of said indica rice variety with the vector constructed in step (a) to a transformant;
- c. Co-culturing the transformant of step (b) with the plant tissue; and
- d.—Regenerating the transformed calli into mature transgenic plants of said rice variety.

18. (Currently Amended) The method according to claim 17, wherein, the said transit peptide coding sequence is a Pea ribulose-1-5-bisphosphate carboxylase gene small subunit transit peptide coding sequence.

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19. (Currently Amended) The method according to claim 17, wherein[[],] the said promoter is a Cassava vein mosaic Virus CaMV promoter (CaMV).

20. (Currently Amended). The method according to claim 17, wherein [[the]] a terminator used is a [[the]] NOS terminator.

21-22. (Canceled)

23. (Currently Amended) [[A]] The transgenic rice variety produced by the method according to claim 17, wherein said transgenic rice variety that produces high levels of 30-95% increase in superoxide dismutase (SOD) activity.

24. (Currently Amended). The transgenic rice variety according to claim 23, specifically, wherein said transgenic rice variety is selected from the group consisting of Godavari 8 and Salween 2[.], that and produces high levels of 30-95% increase in superoxide dismutase (SOD) activity.

25. (Currently Amended) The method according to claim 17, wherein said transgenic plants display increased yield as compared to that of non-transgenic plants under environmental stress conditions, increased tolerance as compared to that of non-transgenic plants to pathogen attack, and play a role in the food industry by increasing a shelf life of said rice variety as compared to that of non-transgenic plants.

26-28. (Canceled)